

Attachment 3



John Burcham
HARRF Superintendent
1521 South Hale Avenue, Escondido, CA 92029
Phone: 760-839-6273 Fax: 760-738-5168

July 27, 2004

Mr. John Robertus
Executive Officer
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340
Attn: POTW Compliance Unit

Subject: Submittal of June 2004 Monthly Monitoring Reports

Dear Sirs:

Attached are the subject reports for the Hale Avenue Resource Recovery Facility (HARRF) as required by NPDES Permit No. CAO107981, Order No. 99-72.

If you have any questions, contact me at (760) 839-6273.

Sincerely,

A handwritten signature in cursive script, appearing to read "John Burcham".

John Burcham
HARRF Superintendent

Attached: Monitoring Reports

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD
2004 JUL 28 P 1:56



John Burcham
HARRF Superintendent
1521 South Hale Avenue, Escondido, CA 92029
Phone: 760-839-6273 Fax: 760-738-5168

July 27, 2004

Mr. John Robertus
Executive Officer
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340
Attn: POTW Compliance Unit

Subject: Submittal of 30-Day Running Average Results for CBODs and TSS for the Hale Avenue Resource Recovery Facility for the Month of June 2004

Dear Sirs:

Attached is the subject report for the Hale Avenue Resource Recovery Facility (HARRF) as requested in your letter dated December 7, 1998.

If you have any questions, contact me at (760) 839-6274.

Sincerely,

A handwritten signature in cursive script that reads "John Burcham".

John Burcham
HARRF Superintendent

Attached: Percent Removal Report for June 2004

2004 JUL 28 P 1:56
SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

Discharger: Hale Avenue Resource Recovery Facility

NPDES Permit No. CAO107981

Order No. 99-72

Report For: June 2004

Report Due: July 30, 2004

Signed Under Penalty of Perjury:

Vasea W. W. W.

Parameter	HARRF		TSS		HARRF		CBOD	
	Influent mg/l	Effluent mg/l	Daily TSS % Removal %	30 Day Ave. % Removal %	Influent mg/l	Effluent mg/l	Daily CBOD % Removal %	30 Day Ave. % Removal %
1-Jun-04	335	52.5	84.3%	86.1%	313	52.9	83.1%	80.6%
2	428	67.4	84.3%	86.1%				
3	297	65.3	78.0%	85.8%	270	50.5	81.3%	81.1%
4	362	52.5	85.5%	86.0%				
5	270	49.3	81.7%	86.0%				
6	350	45.5	87.0%	86.3%	316	49.4	84.4%	81.0%
7	461	32.4	93.0%	86.8%	239	40.9	82.9%	81.1%
8	309	34.0	89.0%	86.9%	236	44.2	81.3%	81.0%
9	345	35.8	89.6%	86.8%	261	43.1	83.5%	81.0%
10	278	27.1	90.3%	86.9%	239	34.8	85.4%	81.1%
11	416	39.6	90.5%	86.9%				
12	326	31.6	90.3%	87.0%				
13	372	47.2	87.3%	86.8%	285	54.5	80.9%	80.5%
14	445	37.2	91.6%	86.8%	285	41.9	85.3%	80.8%
15	327	34.0	89.6%	86.7%	273	39.2	85.6%	81.0%
16	456	30.0	93.4%	86.8%	345	42.8	87.6%	81.4%
17	500	30.6	93.9%	87.0%	266	38.3	85.6%	81.7%
18	416	17.4	95.8%	87.2%				
19	339	21.2	93.7%	87.4%				
20	328	25.6	92.2%	87.6%	262	41.2	84.3%	81.9%
21	385	30.6	92.1%	87.7%	319	43.7	86.3%	82.1%
22	378	34.6	90.8%	87.9%	265	36.8	86.1%	82.5%
23	370	27.6	92.5%	88.3%	271	44.6	83.5%	83.0%
24	379	27.2	92.8%	88.6%	250	42.5	83.0%	83.3%
25	353	23.8	93.3%	88.8%				
26	385	26.4	93.1%	89.2%				
27	362	30.8	91.5%	89.3%	273	46.2	83.1%	83.7%
28	364	31	91.5%	89.4%	241	43.4	82.0%	83.6%
29	418	26.4	93.7%	89.7%	248	36.4	85.3%	84.0%
30	513	29.3	94.3%	90.2%	282	35.4	87.4%	84.2%
Average	376	35.5	90.2%	87.4%	273	43.0	84.2%	81.9%

SELF-MONITORING REPORT REVIEW

To: CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

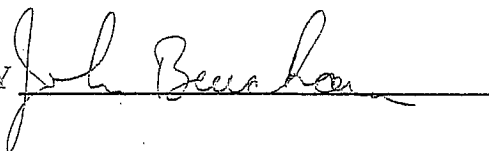
DISCHARGER City of Escondido, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION NO. 99-72

REPORT FOR JUNE 2004 REPORT DUE JULY 2004

REPORT FREQUENCY MONTHLY

SIGNED UNDER PENALTY OF PERJURY



Our Review of the Attached Self-Monitoring Report Reveals the Following Monitoring Violation(s):

1. CBOD (Carbonaceous Biochemical Oxygen Demand) Concentration and Mass loading limits were exceeding during June 2004. These violations are summarized:

CBOD Concentration Limits Violations: The Daily Maximum Limit of 45 mg/l was exceeded on June 1, 2, 3, 6, 13, & 27 (6 of 22 values). The Weekly Average Limit of 40 mg/l was exceeded June 1, 2, 3, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 27, 28, 29, & 30 (22 of 22 values). The Monthly Average Limits of 25 mg/l was exceeded on June 1, 2, 3, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 27, 28, 29, & 30 (22 of 22 values).

CBOD Mass Loading Limit Violations: The Daily Maximum Limit of 6200 lbs/day was exceeded on June 13 (1 of 22 values). The Weekly Average Limit of 5500 lbs/day was exceeded on June 1, 2, 3, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 27, 28, 29, & 30 (22 of 22 values). The Monthly Average Limit of 3400 lbs/day was exceeded on June 1, 2, 3, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 27, 28, 29, & 30 (22 of 22 values).

2. TSS (Total Suspended Solids) Concentration and Mass Loading were exceeded during May 2004. These violations are summarized:

TSS Concentration Limits Violations: The Daily Maximum Limit of 50 mg/l was exceeded on June 1 through 4 (4 of 30 values). The Weekly Average Limit of 45 mg/l was exceeded June 1 through 8 (8 of 30 values). The Monthly Average Limits of 30 mg/l was exceeded on June 1 through 30 (30 of 30 values).

TSS Mass Loading Limit Violations: The Daily Maximum Limit of 6900 lbs/day was exceeded on June 2 & 3 (2 of 30 values). The Weekly Average Limit of 6200 lbs/day was exceeded June 5 & 6 (2 of 30 values). The Monthly Average Limit of 4100 lbs/day was exceeded on June 1 through 29 (29 of 30 values).

3. Acute Toxicity Limit Violation: The Weekly Average limit of 2.0 was exceeded on June 22 & 29 The Monthly Average Limit of 1.5 TUa was exceeded on June 6, 9, 15, 22, 29 2004.

The Following Remedial Action will be (has been) Taken to Correct the Monitoring Violation Listed Above:

As regards TSS, CBOD and Acute Toxicity violations recorded during June 2004, the following applies:

- On June 4th Began four (4) day sampling on next area of collection system
- On June 8th Operational control of plant solids (MLSS) has occurred and indicated that we were on the right path to recovery. More indicator organisms are present in the MLSS samples. Odor has decreased noticeably.
- June 11th Wasting rate was decreased in order increase the Biomass. This resulted in the process neither improving nor degrading.
- June 17th Noticeable increase in the number and type of microbes. More cilia and possible some stalk cilia. The process is showing signs of nitrification. Nitrates are present in the secondary effluent.
- June 18th Testing sulfides at the Primary Effluent. Aeration basin middle and Effluent. end in an attempt to control sulfides with Sodium Hypochlorite applied to the primary influent.
- June 21st Plant aeration basins are still dark and septic staff is maintaining solids inventory at 950 mg/l MLSS, wasting at 380 GPM
- June 23rd increased wasting to maintain target of 950 mg/l MLSS.
- June 24th Grease and oil appearing in micro source unknown.
- June 26th Micro slide shows increase in filamentous growth. Increased NaOCl to RAS.

- June 30th Adjusted RAS valves at aeration basins to balance solids loading.
- July 2nd Moved NaOCl application point from primary influent to Headwork's to improve mixing.
- July 5th Increase in foam on aeration tanks with brown color returning to normal.
- July 8th Increase in micro activity with decrease in filamentous organism.
- July 11th Decreased NaOCl to RAS.
- July 14th Decreased WAS last three days to try and maintain solids inventory. Reduced NaOCl to the Headwork's.

It should be noted that plant staff had to modify and/or add existing plumbing to accommodate the addition of Sodium Hypochlorite to the Primary Influent.

Process returning to normal conditions beginning the week of July 4th, 2004. Lab results show Turbidity was 50 NTU's during worst portion of upset. Now NTU is in the 20 range. TSS in the final Effluent is also down to 20 mg/L CBOD is down to 25/30 mg/L range.

Plant staff is making small changes to return the process to normal i.e. wasting and return rates, NaOCl dosages.

As of June 9, 2004 HARRF Effluent discharge recorded no violations of Daily Maximum Limits and Weekly Average for TSS and CBOD. We are maintaining an increased sampling and testing of Industrial Waste discharges, researching higher biomass capabilities, no acceptance of waste from an outside source, chemical additions, and plant operational procedures. Updates will be provided.

MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 99-72

REPORT FREQUENCY MONTHLY

REPORT FOR : June 2004

REPORT DUE : July 2004

EXACT SAMPLE POINT: Influent Sampling Station

SAMPLE COLLECTED BY Auto Sampler SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY Vasan Vipatpet

INFLUENT (Daily 24 hr. Composite)					
	Flow Rate	Suspended Solid	Volatile S. Solid	CBOD	pH
Units	MGD	mg/l	mg/l	mg/l	
DATE					
6/1/2004	13.7	335	275	313	7.4
2	13.6	428	334	*	7.4
3	13.5	297	238	270	7.5
4	13.4	362	274	-	7.4
5	13.7	270	215	-	7.4
6	13.8	350	287	316	7.5
7	14.0	461	349	239	7.5
8	13.7	309	256	236	7.4
9	13.5	345	259	261	7.6
10	13.7	278	223	239	7.5
11	13.6	416	319	-	7.3
12	14.1	326	259	-	7.5
13	14.2	372	294	285	7.6
14	14.2	445	329	285	7.4
15	13.9	327	266	273	7.3
16	13.8	456	341	345	7.4
17	13.8	500	326	266	7.4
18	13.7	416	299	-	7.3
19	13.6	339	248	-	7.4
20	14.2	328	246	262	7.5
21	13.9	385	300	319	7.3
22	13.8	378	288	265	7.4
23	13.8	370	282	271	7.4
24	13.9	379	283	250	7.4
25	13.6	353	258	-	7.4
26	13.6	385	281	-	7.4
27	13.5	362	264	273	7.5
28	13.8	364	265	241	7.4
29	13.7	418	317	248	7.4
30	13.6	513	355	282	7.4
Average	13.8	376	284	273	7.4
Maximum	14.2	513	355	345	7.6
Minimum	13.4	270	215	236	7.3
Std.Deviation	0.21	60.2	36.7	29.5	0.08

* QC standard check of BOD is out of range

MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 99-72

REPORT FREQUENCY MONTHLY

REPORT FOR : June 2004

REPORT DUE : July 2004

EXACT SAMPLE POINT: Effluent Sampling Station

SAMPLE COLLECTED BY Lab Staff SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

Vance Hipolapet

DATE	FLOW (1)	pH(2)
SAMPLE TYPE	CONTINUOUS	DAILY GRAB(3)
Units	MGD	pH Units
6/1/2004	13.7	7.5
2	13.6	7.5
3	13.5	7.4
4	13.4	7.5
5	13.7	-
6	13.8	-
7	14.0	7.4
8	13.7	7.5
9	13.5	7.5
10	13.7	7.5
11	13.6	7.5
12	14.1	-
13	14.2	-
14	14.2	7.5
15	13.9	7.6
16	13.8	7.4
17	13.8	7.5
18	13.7	7.6
19	13.6	-
20	14.2	-
21	13.9	7.5
22	13.8	7.5
23	13.8	7.5
24	13.9	7.5
25	13.6	7.4
26	13.6	-
27	13.5	-
28	13.8	7.6
29	13.7	7.6
30	13.6	7.6
Average	13.8	7.5
Maximum	14.2	7.6
Minimum	13.4	7.4
Std. Deviation	0.21	0.07

(1) NOT TO EXCEED 16.5 FOR 30 DAY AVERAGE FLOW

(2) WITH IN LIMITS OF 6.0 TO 9.0

(3) MONDAY TO FRIDAY

MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 99-72

REPORT FREQUENCY MONTHLY

REPORT FOR : June 2004

REPORT DUE : July 2004

EXACT SAMPLE POINT: Effluent Sampling Station

SAMPLE COLLECTED BY Auto sampler SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

Vance Hipchopt

DATE	SETTLEABLE SOLIDS			TURBIDITY		
	DAILY GRAB			DAILY 24 hr. COMPOSITE		
	Monthly	Weekly	Daily	Monthly	Weekly	Daily
	Average	Average	Maximum	Average	Average	Maximum
Units	ml/l	ml/l	ml/l	NTU	NTU	NTU
Req't.	1	1.5	3.0	75	100	225
6/1/2004	<0.5	1.0	0.4	44.7	52.2	46.5
2	<0.5	0.9	1.5	45.5	48.6	51.9
3	<0.6	1.0	1.5	45.9	47.6	47.0
4	<0.6	1.3	2.0	45.7	45.6	32.6
5	-	-	-	45.4	43.8	34.0
6	-	-	-	45.0	42.0	33.2
7	<0.7	<1.1	<0.1	44.9	39.7	32.4
8	<0.7	<1.0	<0.1	44.5	37.5	31.1
9	<0.6	<0.8	<0.1	44.3	34.3	30.0
10	<0.6	<0.5	<0.1	44.1	31.2	25.2
11	<0.6	<0.1	<0.1	43.9	30.2	25.3
12	-	-	-	43.7	29.4	28.3
13	-	-	-	43.8	29.1	31.1
14	<0.7	<0.1	<0.1	43.4	29.1	32.6
15	<0.7	<0.1	<0.1	43.1	29.3	32.3
16	<0.6	<0.1	<0.1	42.6	29.2	29.5
17	<0.6	<0.1	<0.1	41.4	29.4	26.9
18	<0.6	<0.1	<0.1	40.6	28.6	19.2
19	-	-	-	39.9	27.4	20.3
20	-	-	-	39.5	26.4	23.9
21	<0.7	<0.1	<0.1	39.1	25.9	29.3
22	<0.6	<0.1	<0.1	38.2	25.5	29.1
23	<0.6	<0.1	<0.1	36.9	25.4	29.1
24	<0.6	<0.1	<0.1	35.6	25.4	26.7
25	<0.5	<0.1	<0.1	33.7	25.8	22.2
26	-	-	-	32.7	26.2	23.3
27	-	-	-	32.0	26.6	26.7
28	<0.4	<0.1	<0.1	31.4	26.2	26.4
29	<0.4	<0.1	<0.1	30.6	25.4	23.6
30	<0.4	<0.1	<0.1	29.8	24.7	24.0
Average	<0.6	<0.4	<0.3	40.4	32.3	29.8
Maximum	<0.7	1.3	2.0	45.9	52.2	51.9
Minimum	<0.4	<0.1	<0.1	29.8	24.7	19.2
Std.deviation	-	-	-	5.18	8.22	7.47

MONDAY TO FRIDAY

MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 99-72

REPORT FREQUENCY MONTHLY

REPORT FOR : June 2004

REPORT DUE : July 2004

EXACT SAMPLE POINT: Effluent Sampling Station

SAMPLE COLLECTED BY Auto Sampler SAMPLED ANALYZED BY APCL

SIGNED UNDER PENALTY OF PERJURY

Vana Virdapet

AMMONIA (MONTHLY COMPOSITE)						
DATE	Concentration			Mass Loading		
	6 Month Median	Daily Maximum	Instantaneous Maximum	6 Month Median	Daily Maximum	Instantaneous Maximum
Units	mg/l	mg/l	mg/l	lbs/day	lbs/day	lbs/day
Reqd.	130	530	1300	18000	73000	180000
6/1/2004	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
13	-	-	-	-	-	-
14	28.9	35.5	35.5	3449	4204	4204
15	-	-	-	-	-	-
16	-	-	-	-	-	-
17	-	-	-	-	-	-
18	-	-	-	-	-	-
19	-	-	-	-	-	-
20	-	-	-	-	-	-
21	-	-	-	-	-	-
22	-	-	-	-	-	-
23	-	-	-	-	-	-
24	-	-	-	-	-	-
25	-	-	-	-	-	-
26	-	-	-	-	-	-
27	-	-	-	-	-	-
28	-	-	-	-	-	-
29	-	-	-	-	-	-
30	-	-	-	-	-	-
Average	28.9	35.5	35.5	3449	4204	4204

MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 99-72 REPORT FREQUENCY MONTHLY

REPORT FOR : June 2004 REPORT DUE : July 2004

EXACT SAMPLE POINT: Effluent Sampling Station

SAMPLE COLLECTED BY Lab Staff SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY Vana Lipet

EFFLUENT (Daily Grab)		
	Dissolved Oxygen	Temperature
Units	mg/l	° C
DATE		
6/1/2004	2.9	25.0
2	2.3	25.0
3	3.5	25.5
4	3.1	25.5
5	-	-
6	-	-
7	2.9	25.0
8	3.9	25.0
9	3.9	25.0
10	5.1	25.5
11	6.3	25.0
12	-	-
13	-	-
14	4.4	25.5
15	4.7	25.0
16	4.9	25.0
17	4.4	25.0
18	6.0	24.0
19	-	-
20	-	-
21	3.9	23.5
22	5.4	24.5
23	3.6	26.0
24	3.1	27.0
25	4.1	27.0
26	-	-
27	-	-
28	4.5	25.5
29	5.2	25.5
30	5.8	25.0
Average	4.4	25.2
Maximum	6.3	27.0
Minimum	2.3	23.5
Std. Deviation	1.1	0.8

MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery FacilityORDER/RESOLUTION No.99-72REPORT FREQUENCY MONTHLY

REPORT FOR :June 2004

REPORT DUE : July 2004

EXACT SAMPLE POINT: Effluent Sampling StationSAMPLE COLLECTED BY Auto sampler SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

Vana Vignat**BIOCHEMICAL OXYGEN DEMAND (Daily 24 Hrs. Comp.)**

DATE	Concentration Daily Maximum	Mass Loading Daily Maximum
Units	mg/l	lbs/day
Reqt.		
6/1/2004	-	-
2	-	-
3	64.1	7217
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	45.3	5100
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	43.0	4949
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	49.7	5720
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	41.1	4696
30	-	-
Average	48.6	5536